

United States Patent [19]

Cherdak et al.

[11] **Patent Number:** 5,635,682[45] **Date of Patent:** Jun. 3, 1997[54] **WIRELESS STYLUS AND DISPOSABLE
STYLUS CARTRIDGE THEREFOR FOR USE
WITH A PEN COMPUTING DEVICE**[75] **Inventors:** Erik B. Cherdak, Montgomery County,
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County, N.H.[73] **Assignee:** A.T. Cross Company, Lincoln, R.I.[21] **Appl. No.:** 214,166[22] **Filed:** Mar. 16, 1994[51] **Int. Cl.⁶** G08C 21/00[52] **U.S. Cl.** 178/18; 345/179[58] **Field of Search** 178/18, 19, 20;
345/179, 180, 181; 352/3, 13[56] **References Cited****U.S. PATENT DOCUMENTS**

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Primary Examiner—Curtis Kuntz*Assistant Examiner*—Paul Loomis*Attorney, Agent, or Firm*—Colucci & Umans[57] **ABSTRACT**

A wireless stylus apparatus for use with a pen computing device having an input screen or tablet for inputting infor-

mation into the pen computing device. The wireless stylus includes, but is not limited to, a reusable barrel having an open end and a disposable stylus cartridge having a body section and a head section. The head section has a point. The information is input to the pen computing device when the point is in contact with the surface of the input screen or tablet. The disposable stylus cartridge is meant to be releasably mounted in the reusable barrel so that the head section can extend beyond the open end thereof. The disposable stylus cartridge is configured to leave no discernable mark on the input screen or tablet when the head section of the disposable stylus cartridge is in contact with the input screen or tablet. Additionally, A disposable stylus cartridge adapted to replace a refill cartridge used with a typical reusable writing device is disclosed. The reusable writing device has a barrel which includes an open end. The disposable stylus cartridge is configured to input information into a pen computing device which includes an input screen. The disposable stylus cartridge includes, but is not limited to a body section and a head section integrally formed with the body section. The head section has a point. Information is input to the pen computing device when the point is placed into contact with the input screen of the pen computing device. The disposable stylus cartridge is configured to be releasably mounted in the reusable barrel so that the head section of the disposable stylus cartridge can extend beyond the open end of the barrel. The disposable stylus cartridge is configured to leave no discernable mark on the input screen when the point of the head section of the disposable stylus cartridge is in contact therewith. Finally, the disposable stylus cartridge being configured to wear with use.

18 Claims, 1 Drawing Sheet